M. A. R. 57 (Rule 116)

Measurement Book

No. B 184331

P.R - 12 / 30-4/14

From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
Name of Work:- Improvements to CC Roads & Drains Muruli House Road in Ganganna Temple in ward No 14						
Work Code No:- 011-14-000021 Estimated Cost Rs. 10.00 Lakhs						
Work order No:- EE/BTP/BBMP/E-TMS/551/13-14 Date:- 28/2/14						
Name of Agency:- M/s N.S Infras Sri Sathish.K No 3 Matrushri Bank Cross Road. Kamarama Temple Street Devi Nagar. B-lore.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

1) Earth work excavation by Manual means in Hard soil involving an average Horizontal throw upto 2 meters & an average lift upto 0.5m, excavated surface leveled & sides neatly dressed, the disposal earth to be leveled neatly after breakings of clods etc. complete as per Specifications.

Muruli House Road

$1 \times 30.00 \times \frac{3.50+3.30}{2} \times 0.20 = 20.40$

$1 \times 30.00 \times \frac{3.30+3.60}{2} \times 0.40 = 41.40$

20.40 + 41.40 = 61.80

Culvert

Drain Desiltation

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184332

From ..... To .....

of nature of Agency.....

of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Dimensions Breadth 5	Dimensions Depth 6	Contents 7	Reference to last Measurement 8
			$1 \times 30.00 \times \frac{1.40+1.40}{2} \times 0.25 = 10.29$				
			$1 \times 30.00 \times \frac{3.40+3.50}{2} \times 0.25 = 25.88$				
			$1 \times 31.20 \times \frac{3.50+3.60}{2} \times 0.20 = 22.15$				
	Culvert		$1 \times 5.00 \times 0.60 \times 0.45 = 1.35$				
	Drain Desiltation		$1 \times 30.00 \times 0.60 \times 0.35 = 6.30$				
			$1 \times 30.00 \times 0.60 \times 0.40 = 7.20$				

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	× 30.00	× 0.45	× 0.45 =	6.08	
		1	× 30.00	× 0.45	× 0.35 =	4.73	
		1	× 30.00	× 0.45	× 0.45 =	6.08	
		1	× 5.00	× 0.45	× 0.35 =	0.79	
					Total Qty	140.33 M3	
					Limited TO	139.35 M3	
					@ M 89.81	M 12515.00	
	a) Construction of embankment with approved Material gravel / murrum with all lifts & leads transporting						

CJR 7

M. A. R. 5
Measure

From .....

of nature of Agency.....

of work.....

Full description, etc, of work	Number	Le
2	3	
to site, Spreading, Gradi- to Meet requirement Ref gravel / murrum, Water Vibratory roller etc. Comp premeasurement Qty M		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184333

Reference to last Measurement 8

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
		Length	Breadth			
2	3	4	5	6	7	8
to site. Spreading, grading to required slope & Compacting to Meet requirement Table 300-2. which includes cost of gravel/murrum, watering charges of Compaction by Vibratory roller etc. Complete as per Specifications. premeasurement. Qty vide page no.					184395	
					68.84 m²	
					67.50 m²	
					Rs 11115=00	
		total Qty limited to				
		Rs 164.66				

CLR

CLR

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	3) providing & laying in position plain cement Concrete of Mix. M 7.5 with OPC Cement @ 180kgs using 40mm & down size graded granite metal Coarse aggregate @ 0.85cum & Fine aggregate @ 0.53cum Machine Mixed concrete laid in layers not exceeding 15cm thick well Compacted in Foundation & plinth, including Cost of all Materials, labour, Hire of Machinery Curing etc. Complete as per Specification.						
	Munuli House Road	1	30.00	$\frac{3.50+3.30}{2}$	0.15	= 15.30	

M. A. R.
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From ....

Nature of Agency.....

Name of work.....

Full description, etc, of work	Number
2	3
	1 × 2
	1 × 1
	1 × 3
	1 × 3
	1 × 3
Culvert	1 × 5

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184334

From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Dimensions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Concrete in M15 grade and thickness in dry							
		1	30.00	$\frac{3.30+3.60}{2}$	0.15	= 20.70	
		1	13.90	$\frac{3.60+3.80}{2}$	0.15	= 7.71	
		1	30.00	$\frac{1.40+1.40}{2}$	0.15	= 8.40	
		1	30.00	$\frac{3.40+3.50}{2}$	0.15	= 18.53	
		1	31.20	$\frac{3.60+3.60}{2}$	0.15	= 16.61	
	Culvert	1	5.00	0.60	0.20	= 0.60	

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C&FC
P3.14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Total Qty Limited to JM 4247.93			84.85 cm³ 84.83 m³ } or Rs,3602358=00	
	4) providing & Removing, Centering, shuttering, Struttg propping etc. & removal of Form work for vertical Surface such as walls at any thickness. including attached pilasters, buttresses, plinth & String Courses Cost of all Materials, labour etc Complete as per Specifications.						

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From ...

of nature of Agency.....

ement of work.....

Full description, etc, of work	Number
2	3
premeasurement	
5) providing & laying in p of design Mix M30 with q of down size graded gra	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184335

..... From ..... To .....

Name of contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Premeasurement Qty vide page No						184796
	Total Qty					169.15 m²	
	Limited to					168.75 m²	
	@ Rs 268.37					Rs. 45287.00	
	30) providing & laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs with 20 mm nominal down size graded granite Metal Course aggregates @						

C&F

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	0.878 Cum of 5/4" aggregate @ 0.459 Cum with Super plasticizer @ 3 lts Confirming to IS 9103-1999 reaffirmed 2008, Machine Mixed, Concrete laid in layers not exceeding 15 Cm thick, Vibrated for all works in Foundation plinth & ground floor level for roof slabs, Stair Case, lintels retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, Abutements, pillers, portal struts, buttresses, including Cost of all Materials, labour TOM & Machine Curing etc Complete as per Specification						
	Culvert cc slab	1 × 5.00 × 1.80 × 0.23 = 2.07					
	Covering Slab	1 × 3.00 × 0.90 × 0.10 = 2.70					

M. A. R. 57
Measurem

From .....

of nature of Agency.....

ment of work.....

Full description, etc, of work	Dimensions	
	Number	Length
2	3	4
	1 × 30.	
	1 × 30.	
	1 × 30.	
	1 × 30.	
	1 × 5.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184336

From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Dimensions			Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6	
			1 × 30.00	× 0.90 × 0.10 =	2.70	
			1 × 30.00	× 0.90 × 0.10 =	2.70	
			1 × 30.00	× 0.90 × 0.10 =	2.70	
			1 × 30.00	× 0.90 × 0.10 =	2.70	
			1 × 5.00	× 0.90 × 0.10 =	0.45	
				Total Qty	16.02 m³	
				Limited to	15.75 m³	
				@ Rs 5583.36	Rs. 87938=00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	6) providing TMT steel reinforcement for R.C.C Work including including straightening, cutting, bending. hooking placing in position, lapping and/or welding wherever Necessary required, tying with binding wire & Anchoring to the adjoining members wherever Necessary Complete as per design Cost of Materials, labour, Hiring Machinery etc. Complete as per Specifications						
	premeasurement Qty vide page No					184397	
	Total Qty					11.04 Qtl	
	Limited To					11.03 Qtl	

M. A. R.
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From ....

of nature of Agency.....

of work.....

Full description, etc, of work	Number	L
2	3	
providing & fixing 20mm c		
Expansion joint Complete as		
C.C Road	4 x 3	
	4 x 3	
	3 x 3	
	4 x 3	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184337

From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc. of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
				Qty 7376.41		Qty 81325.00	
	4) providing & fixing 20mm thick Compressible fibre board in Expansion joint Complete as per drawings & Technical specifications.						
	C.C Road	4 x 3.20	—	—	= 12.80		
		4 x 3.30	—	—	= 13.20		
		3 x 3.60	—	—	= 10.80		
		4 x 3.80	—	—	= 15.00		
				Total Qty	52.00 Sqm		

P 3.14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		Limited to				49.00 Sqm	
		Sq 135.79				By. 6654.00	
	8) Providing & laying cement concrete using 20mm & down Size granite jelly & ready Mixed Concrete (RMC) for R.C.C. Works laid in 15 cm thick layers & well compacted Vibrating, curing finishing with Necessary Cement Mortar Form works & Scaffoldings to withstand pouring of Concrete with all lead & lifts etc. Ready Mixed Cement Concrete M-20 (1:1.5:3) for raft Foundation, Column Footing Making Secondary beams etc.						

M. A. R. 5
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From .....

of nature of Agency.....

ment of work.....

Full description, etc, of work	Number	Le
2	3	
CC Load	1	30
	1	30
	1	13
	1	30
	1	30
	1	81

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184338

From ..... To .....

Name of Contractor of nature of Agency.....

Name of Measurement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	CC Road	1	30.00	3.50+3.30/2	0.10	= 10.20	
		1	30.00	3.30+3.60/2	0.10	= 10.35	
		1	13.90	3.60+3.80/2	0.10	= 5.14	
		1	30.00	1.40+1.40/2	0.10	= 4.20	
		1	30.00	3.40+3.50/2	0.10	= 10.35	
		1	31.20	3.50+3.60/2	0.10	= 11.08	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Total Qty			51.32 m3	
			Limited to			51.30 m3	
			@ 6400.23			Rs. 328332=00	
	9) Vacuum De-watering with Vacuum pump & Suction Mat of Compaction with Skid Floater clubbed with floating disc including cost of generator Hom of Machinery Screed Vibratory, power Floater, blade & disc etc. Complete as per Specifications						
	CC Road	1	30.00	3.50+3.80 / 2		= 102.00	

M. A. R. 5
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From .....

of nature of Agency .....

ent of work .....

Full description, etc, of work	Number	Le
2	3	
	1	30
	1	13
	2	30
	1	30
	1	31

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184339

From ..... To .....

Contractor of nature of Agency.....

Commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1	30.00	$\frac{3.30+3.60}{2}$		= 103.50	
		1	13.90	$\frac{3.60+3.80}{2}$		= 51.43	
		2	30.00	$\frac{1.40+1.40}{2}$		= 42.00	
		1	30.00	$\frac{3.40+3.80}{2}$		= 103.50	
		1	31.20	$\frac{3.50+3.60}{2}$		= 110.76	
				Total Qty		513.19	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate:-						
	certified that the above work done is satisfactory.			diminished		513.00 Cft	
				Rs. 90.88		Rs. 46621=00	
				Total		Rs. 980139=00	

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Rs. 30/4/14

M. A. R. 57
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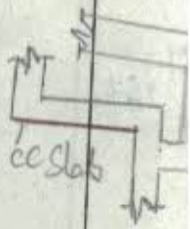
From .....

of nature of Agency.....

of work.....

Full description, etc, of work	Number	Dim Length
	3	4



Rs. 4.11

M. A. R. 57 (Rule 116)
Measurement Book

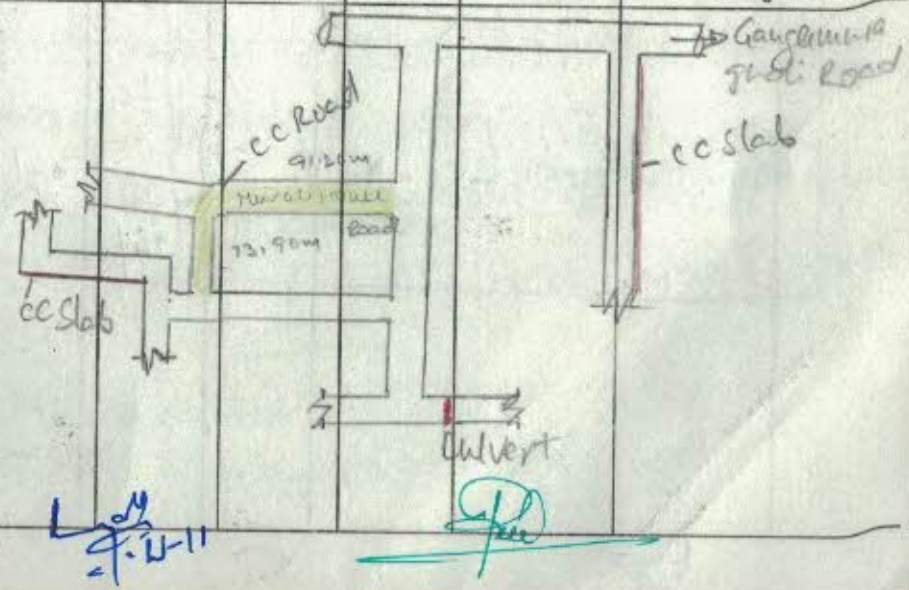
No. B 184340

From ..... To .....

Name of Contractor or nature of Agency.....

Date of commencement of work.....

Reference to last Measurement 8	Full description, etc, of work 2	Number 3	Dimensions: Length 4	Dimensions: Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
3							
121=00							
39=00							



MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	980130=00		IT	19603			
	134968=00			39205			
	845362=00			53907			
				9801			
				9800			
				10032			
					500		
			14/3				
			Total		134968=00		

EASUREMENT BOOK

	Dimensions			Contents	
	Number 3	Length 4	Breadth 5	Depth 6	7

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184395

Repairs to CC Roads & Drains Aundh House Road in Ward No 11
M/s N. Surana Sri Sathish K.

	Dimensions			Contents	Reference to last Measurement
	Number 3	Length 4	Breadth 5	Depth 6	7	8
				With approved Material		
				etc.,		
					5·46	
					5·28	
					5·25	
					6·30	
					5·40	
					7·52	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
		1	5.00	3.60	0.35	6.30
		1	6.50	3.60	0.30	7.02
		1	6.20	3.50	0.35	7.60
		1	5.50	3.80	0.35	7.32
		1	5.00	3.20	0.35	5.60
				Total Qty		68.84 m³
	2) Providing & Removing centering, shuttering strutting propping etc					

ASUREMENT BOOK

Dimensions				Contents	
Number 3	Length 4	Breadth 5	Depth 6	7	
1	5·00	3·60	0·35	6·30	
1	6·50	3·60	0·30	7·02	
1	6·20	3·50	0·35	7·60	
1	5·50	3·80	0·35	7·32	
1	5·00	3·20	0·35	5·60	
		Total Qty		68·84	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184396

From ..... To .....

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
				3·00	
				2·50	
				0·70	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	Sides	2	30.00	—	x0.15 =	9.00
		2	30.00	—	x0.15 =	9.00
		2	30.00	—	x0.15 =	9.00
		2	30.00	—	x0.15 =	9.00
		2	30.00	—	x0.15 =	9.00
		2	5.00	—	x0.15 =	1.50
				Total Qty		169.15 m³
				Limited to		168.75 m³
				Engr.		

MEASUREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7
2	30.00	—	0.15	9.00
2	30.00	—	0.15	9.00
2	30.00	—	0.15	9.00
2	30.00	—	0.15	9.00
2	30.00	—	0.15	9.00
2	5.00	—	0.15	1.80
		Total Qty		169.15 m³
		Limited to		168.75 m³

M. A. R. 57 (Rule 116)
Measurement Book

No. B 184397

From ..... To .....

Number 3	Dimensions: Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	Abstract			Total	Kg/Rm	Total
	8mm			930.00	x 0.39	= 362.70
	10mm			931.50	x 0.62	= 577.53
	12mm			60.00	x 0.89	= 53.40
	16mm			68.40	x 1.62	= 110.81
						1104.44 Kg
				Total Qty		11.04 Qtls
				Limited To		11.03 Qtls